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Registration controversy continues

by Dwight Dively

The registration procedure at Rose-Hulman is one of the most controversial aspects of the curriculum, and last week's winter registration brought out the usual volume of complaints and suggestions for reform.

Registration has always been a concern at Rose, and several changes have been made in the procedure over the past few years. Until about five years ago, the school didn't even have a registrar, and the Dean of the Faculty handled scheduling. As the school and class demands grew, the need for a full-time registrar became apparent, and Louis Harmening was selected for the job.

Much of the current registration procedure derives from the work of a faculty committee that was formed in May 1976. Chaired by Dr. Don Dekker, the committee also included Dr. Bruce Daner, Professor Dale Oexmann, and Dr. Thad Smith.

The committee's proposals, once accepted, established the

one-day registration procedure, eliminated the computer card system and pre-registration, and set up registration in the auditorium. Because of crowding, Harmening later moved the site to the fieldhouse.

Mr. Harmening explained how the schedule of classes is made up: "We start with the solids, the science and technical courses, then arrange the humanities courses so everyone has a few options in hours they don't have a required class." The department chairmen then review the proposed schedule to make sure there are no conflicts and everyone has an opportunity to take all the classes they need.

In past years, there was an attempt to pre-register students, in order to find out which humanities classes should be offered. Although the concept sounded fine, Harmening explained that many students were unhappy when their choice was dropped due to lack of interest. He says that "students seemingly are happier with the current system than the old

one," and estimates that 90-95% of the students get what they want. 85% success is considered outstanding at most schools.

There are three major constraints on the scheduling process: rooms, professors and curricula. Scheduling could be made much simpler if enough rooms were available, but every classroom in the school is used during certain hours of the day, including first and fourth hours this quarter.

The shortage of humanities faculty puts a limit on how many classes can be offered. Often, this means that popular courses fill up before many students get a chance to take them. It also makes scheduling difficult, as professors can hardly be expected to teach for three hours in a row.

The final problem is in allowing students the chances to take the electives they need in a specific major, and in allowing opportunities for students with double majors. This cross-disciplinary problem is one of the most pressing registration

difficulties, according to Harmening.

The registration procedure is still not perfect, admits Harmening, but he explains that it is greatly improved over a few years ago. Despite a trebled student population, Rose now has no Saturday morning classes and more electives than ever before.

The major remaining problem are those students primarily freshmen, who cannot get a humanities class they want because all sections are filled. Dr. Tom Mason, the Humanities Division Chairman, is available at registration to help out with these problems, and the gradual expansion of the humanities faculty is minimizing these problems.

Despite all the improvements, Harmening is not satisfied, and is always looking for new ways to make the system better for the students and faculty. Anyone with suggestions is urged to contact him.



Freshman Scott Hickerson pioneers through the woods at Rose on his way to first place in the Orange category at Rose's Orienteering meet on October 14. (Photo by Womble).

Orienteers finish on top in meet at Danville

by Peter Kehoe

The Rose-Hulman Orienteering Club took the top places in a meet in Danville, Ill., last Sunday. Mike McCullough had the fastest time on the Orange course with a time of 67 minutes to take first place in that division. Mark Mason finished two minutes behind to take second. On the tougher, Red, course, Tim Guetersloh finished first, while Mike Sigmund gained second place.

In the meet held here on October 14, Rose club members took first in the events in which they entered. In the 15-18 year old Orange category, Don McCracken was the top finisher. In the largest category, the 19-35 bracket of the Orange course, Scott Hickerson edged out Mike Ullrich, a Rose alumni, to net

first place.

In the other categories, Robert Althaus of Bloomington finished first in the 35 and older Orange category. The Southern Illinois Orienteering Club took the rest of the trophies. James Duzan of the club had the fastest time on the White course, while teammate Andrea King, the only female competitor, took first in her division. James Hertz, who has had experience at the international level, finished first on the Red course.

The Orienteering Club is now preparing for their upcoming meet which is in Columbia, Missouri. It is scheduled for the fourth and fifth of November. This is a Class A meet, and several hundred competitors from around the country are expected.

"Who's Who" named

by George Sand

Thirty Rose-Hulman juniors and seniors have been selected for inclusion in the 1978-79 edition of "Who's Who Among Students in American Universities and Colleges."

Twenty-one seniors were chosen, including J. Carl Agee, Buddy Atherton, Ken Burch, John Burkey, Tom Burtzloff, Bob Burwell, Mark Denzin, Dennis Grannan, Daily Hill, Matt Hodson, and Tony Mazzoni.

Also selected were Jeff McCreary, Mike McPherron, Dale Newby, Rod Norder, Rich Priem, John Rasp, Jan Slupesky, Doug Stearley, Greg Tarvin, and Nick Willing.

The nine juniors accepted were Steve Anderson, Dwight Dively, Bob Froetscher, Steve Long, Bob Pease, Todd Royer, Chuck Sigman, Don Umpleby, and Paul Wallace.

"Who's Who" is an annual publication listing outstanding college students in the two upper

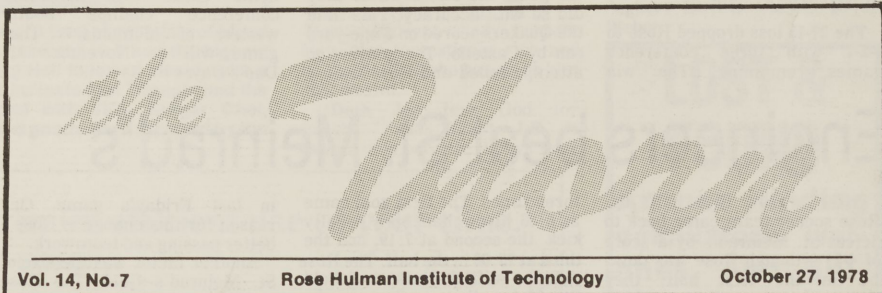
classes. Each school is limited as to how many students it can nominate for inclusion.

Upperclassmen submitted applications two weeks ago, and a special student-faculty committee selected the nominees. The choice was based upon scholarship, leadership potential, campus activities, and citizenship.

The selected students represented a wide variety of activities, ranging from student government and publications to varsity football and debate.

Twelve mechanical engineering majors, eight chemical engineering majors, seven electrical engineers, two math majors, and a civil engineer were chosen.

The students who were selected will receive special certificates at the Spring Honors Convocation. The year's edition of "Who's Who" is expected sometime early next spring.



Solar house becomes reality

Mrs. Mary Stark of West Terre Haute will receive a substantial cut in her home heating bill this winter, thanks to the combined efforts of the Community Action Program of Vigo County and a group of students at Rose-Hulman.

Approximately one year ago the Community Action Program provided Rose-Hulman a grant of \$12,500 to design and install a solar heating system in a locally-owned home of a low income resident of Vigo County.

Within two weeks this innovative project will be a reality. All work but the installation of the controlling system has been completed.

Dr. Jerry A. Caskey, professor of chemical engineering at Rose, is director of the project on which four faculty members and various local experts teamed with 11 students.

Once Rose received the grant, Caskey sought help from his teaching colleagues. He was joined by Noel E. Moore of chemical engineering and Irvin P. Hooper and Don L. Dekker of mechanical engineering.

"We passed out job application forms to every junior and senior and received 30 applications," said Caskey. "From this list we picked 10 and later found a sophomore who is an outstanding draftsman and added an eleventh member of the team."

The four professors and small student group spent the Winter term familiarizing themselves with all types of solar systems, heat load calculations and other information required for the

project. The Spring term was spent designing three different solar heating systems from which one could be selected for the project.

The class organized itself into a mock consulting engineering firm to undertake the project. Greg L. Tarvin, a junior mechanical engineering major from Lapel, Ind., was selected to head the group.

Other members of the group still at Rose are Martin Krongold, a senior mechanical engineering from Pittsburgh, PA, and junior Bob Luoma, a Lansing, Mich., civil engineer.

"Not just any house can be retrofitted with a solar system," said student leader Tarvin. "For nominal light-energy collection, the collectors must face due south at an optimum angle of about 50 degrees to the horizon. Also, to provide 50 percent of the heating needs of a one-story, 1,000-square foot home, about 300 square feet of collectors are needed. This means the house must have a strong south pitched roof or a large unobstructed yard."

"Also, because of the novelty of this research, it was decided by the Rose-Hulman team that the house selected should be in good upkeep and be owned by a person willing to help as much as possible (even if it means staying completely out of the way!). Also, to keep the design as simple as possible, a single story small size house with few inhabitants would be ideal."

The Star house has 1,128 square feet of living space, 350 square feet of south facing roof at

approximately 45 degree pitch, a virtually unused half basement which provided ideal space for the large rock storage bin, a forced-air gas furnace and water heater.

"Although Mrs. Stark is heating her home by the most economical method with gas fired hot air, we still are hopeful of saving her nearly 50 percent," said Tarvin.

Mrs. Stark has agreed to allow students to monitor the house for five years. The system will be completely monitored by sensing temperatures in 20 different locations throughout the system.

Solar insulation also will be monitored (whether or not the sun is shining and the intensity of the solar energy). According to Dr. Caskey, data will be taken every 15 minutes during the heating system.

The heart of the monitoring system is a microcomputer which will collect and store data with an output of one week's date on a standard cassette tape. The cassette tape will be brought back to Rose-Hulman and transferred to the school's computer which will model and interpret all heat balance and efficiency calculations.

"Students will be involved in developing the monitoring system and following the calculations this year," Caskey continued. "From the results of the monitoring data we will hopefully learned where the system is efficient and where it needs improvement. We'll learn how systems can be modified to make them better."

Rose debaters victorious

by William Howard

Rose-Hulman's Debate Team had its best weekend ever last week when the team took a first and a second at two different tournaments, and also received four speaker awards.

The varsity team of junior Dwight Dively and sophomore Mark Bates journeyed to Millikin University in Decatur, Ill., and came away with the first place trophy for the second straight year.

They ran up a 7-1 record, beating the College of Illinois for the championship after knocking off Wheaton, Western Kentucky, Illinois State, and Coffeyville

College. As he was last year, Dively was named the meet's Outstanding Speaker, and Bates finished sixth.

Meanwhile, Rose's junior varsity and novice squads travelled to IUPUI in Indianapolis and won six awards. The JV unit of sophomores Kevin Bowen, Keith Hovda, Peter Kehoe, and Jim Renfro was awarded the second-place overall trophy, with Bowen and Renfro being cited as second-best affirmative unit and Hovda and Kehoe being named second-best negative. Hovda also garnered the second place speaker award.

In the novice division, the team of freshman Kevin Liekhus and senior John Rasp went 3-1, and took the honors as second-best affirmative unit. Rasp captured the fourth speaker award in the division, also.

The results of these two tournaments ran the squad's season record to 22-10, and reaffirmed their standing as one of the top teams in the Midwest. Tournaments are now planned at Greenville on December 2, Ball State on November 4, and possibly Western Kentucky this weekend.

Football team records one victory, one loss

The Rose football team played two exciting games in the last two weeks. In the first Rose jumped to an early 18-0 lead but their hosts, Olivet Nazarene, came back. In the fourth quarter Rose led 18-13 but Olivet Nazarene was mounting another drive. A crucial interception preserved the win and boosted Rose's record to 4-1-1.

Last week's game against the Quakers from Earlham was a different story. Earlham was expected to play a physical game like Olivet Nazarene, but they weren't supposed to be able to run for twice the yardage, which Rose had averaged yielding. The fact that it was the Quakers Homecoming also proved to be a factor.

The 27-15 loss dropped Rose to 4-2-1 with three conference games remaining. The win

leaves Earlham at two wins and four losses.

The first quarter ended scoreless but Earlham hit pay dirt early in the second quarter with a three yard touchdown run by Williams.

Rose countered with an 80-yard drive that ended in a 10-yard bootleg by quarterback Dan Haas. The Engineers then set up to kick the extra point, but instead the snap was to Bob Burwell waiting casually at the end of the line. He breezed across for the two points and Rose led 8-7.

Late in the third quarter the Quakers sustained a good drive. Again this drive was primarily a ground attack. When Earlham did go to the air, however they did so with accuracy. This time the Quakers scored on a one-yard run by Castello. The conversion attempt failed and Rose trailed

13-8.

Pfanstiel immediately countered with a six-play, sixty-four yard, series for a touchdown. A personal foul aided the Rose cause. Pfanstiel skipped across from one yard out to give Rose a brief, very brief, two-point lead.

On the ensuing kickoff Earlham regained the lead. The kick went to Jack Dyche on the 18 and he took it all the way for the score. The extra point gave the lead back to the Quakers 20-15. They scored again for a final score of 27-15.

The next two games are on the road against Centre and Sewanee. The final game is a home clash with defending conference champs Southwestern of Memphis. That game will be November 11, Dad's Day.

Engineers beat St. Meinrad's

After a slow first half, the Rose soccer team came back to defeat St. Meinrad's by a score of 4-2. Although Rose was down 1-2 in the first half, they managed to score three goals in the second half for the victory.

The first half was controlled by St. Meinrad's aggressive play. They scored first at 14:06 in the first half, and then again on a penalty kick at 34:58 in the same period. Rose got on the board with a goal at 40:28 in the first half.

In the second half, Rose took control of the game and scored

three times. The first goal came at 6:36 in the half on a penalty kick, the second at 7:19, and the third at 23:06 in the half. The Rose defense stiffened also and held St. Meinrad's scoreless in the second half.

Bob Froetscher scored two goals for Rose while Eric Mooney and Blair Hughes both scored one goal each for Rose. Other good performances were turned in by fullbacks Steve Wirtz and Tom Roetker.

Earlier in the season St. Meinrad's defeated the Rose team 2-1, but the improving Rose team was able to turn the tables

in last Friday's game. One reason for this change is Rose's better passing and teamwork.

Another factor was the size of St. Meinrad's field. The Rose field, on which the first game was played, is the minimum size, 65 yards by 100 yards. St. Meinrad's field is the maximum size, 75 by 110 yards. Thus Rose's superior conditioning paid off on the larger field in the second half.

Rose's next game is this Saturday on the Rose soccer field at 11:00. Rose will face a tough Franklin team which they narrowly defeated 1-0.

CC Team runs in Little State

by Mike Dunkel

The cross-country team finished 11th out of 17 teams in the Big State-Little State meet held at Purdue South Golf Course last Friday.

Division I schools were scored in the Big State meet. Rose-Hulman was scored with the smaller schools in the Little State, but all the teams ran in one race.

Dean Billheimer was the fastest Rose runner of the day, finishing the hilly five-mile course in 30:16. Billheimer finished 80th in a field of over 150 runners.

Will Hentzen, John Whitaker, Mike McCullough, and Gary Totten finished in the top five for Rose. The fourth runner for Rose was only 37 seconds behind Billheimer.

Ken Hilk, who has been bothered by a pulled muscle in his hip, was not able to run in the

I.M. Meet changed

The IM Cross Country meet will be held on a new flatter course this year. The course will entail a lap around the track and then an open country course around the IM softball fields. The course distance will be kept at a mile and half, and the scoring will also remain the same.

The first place team will receive 40 points towards the all sports trophy, the second 36, and the third 32. In addition, any runner running under 10 minutes will win a half point for his team toward the all-sports trophy. Last year 41 out of the 79 students participating made the 10-minute mark.

The meet will be on Halloween.

meet. However, Coach Jim Hargis says Hilk is getting better and will run in the conference meet.

The week before the cross-country team didn't fare as well at the Purdue Invitational meet. The meet was held at the same place; however, the race covered a different course and was six miles instead of five.

John Whitaker led for Rose with a good time of 35:01 for the six miles. Still the team only managed to beat the University of Evansville.

The next meet will be the C.A.C. Conference meet against

Principia, Centre, University of the South, and Southwestern, Saturday, Nov. 4, at Sewanee, Tenn.

"I'll be disappointed if we are not second or better in the conference meet," said Coach Hargis.

Principia is favored to win the conference meet. In the DePauw Medley meet Principia runners were first and second in the five mile race and set a course record.

American writer Henry David Thoreau said, "It takes two to speak the truth — one to speak and another to hear."



Shown here is the victorious Rose Rifle team after beating Ohio State to claim the "Stump" for the first time in 15 years. The score of the match was Rose 2,139 to Ohio State's 2,008, out of a possible 2,400 points. Rose was paced by Charles Leddon with a 548 out of 600. (Photo by Womble).

Marksman win "stump"

by Norm Frey

Ohio State's scholarship rifle team was number two in the Big Ten Conference last year. And for many years before that, Rose-Hulman had been unsuccessful in defeating them — until this year.

Ever since the inception of The Midwest Stump Annual Rifle Match, Rose-Hulman has been unable to obtain possession of "The Stump," a grudge-match traveling trophy. On October 14 came a long-sought turnabout after years of keen competition.

The Engineers had the home range advantage and one match experience already this season going into the contest to rally against the Ohio State marksmen, who were shooting their first match of the year.

Rose-Hulman made the best possible use of the breaks during the double-length course to win 2,139 versus Ohio State's 2,008 out of 2,400 possible points.

Charles Leddon was top marksman for Rose with 548 out of 600. Gary Meier finished second, James Gryga placed third, and Steve Brockman

came in fourth. Their scores were a fitting tribute to the fine coaching of Sgt. Homer Hungerford and Sgt. Robert Scheffknecht in a long awaited victory over the Ohio State powerhouse.

In last weekend's Chicagoland, R.O.T.C. Rifle League match, Rose-Hulman was again victorious, this time over the combined efforts of the Army R.O.T.C. unit from the University of Illinois at Champaign and the Navy R.O.T.C. unit from Illinois Institute of Technology.

James Gryga was lead man for the Engineers with 261 out of 300 possible points. Bruce Ziegler, Jeff Sutherland, Tim Juntunen, and Dave Kolacz chipped in to make a combined score of 1,249 out of 1,500 possible points, defeating the competition by 110 points.

So far this year the Rifle Team has a perfect 3-0 record and another trophy for the case. They will be trying for 4-0 next Saturday against Purdue University.

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Rose students turned out in record numbers to donate blood last week. A total of 143 pints of blood were contributed to the Central Indiana Regional Blood Bank. Sharpensberg Hall had the highest donation percentage with 26% of the residents contributing. Deming Hall followed closely with a 25% contribution rate. Mees was third with 18%. Preliminary figures indicate that Triangle had the highest fraternity participation with 41%. Sigma Nu was second with 15%. Burger Chef, McDonalds, and Mackie provided the drinks for the donors. The baked goods were supplied by the faculty wives. (Photo by Womble).

Club plans J.B.

by Eric Blair

The Drama Club will present its major fall production, Archibald MacLeish's "J.B." on Friday and Saturday evenings, Nov. 3-4, at 8:00 p.m. in the Rose Auditorium. Tickets are one dollar and are available at the door or from club members.

The play is a serious drama which takes its theme from the Book of Job. Jeff Koechling and Bill Sutton play Zuss and Nickels, two aging actors forced by hard times to work as circus vendors.

The big top, deserted at night, becomes their universe as they assume the roles of God and Satan and begin to act out the eternal drama of Job.

"Job" in this case is the successful businessman J.B., as played by Joe Gaines. J.B. is a pious and God-fearing man, "one that fears God and turns away from evil." He's blessed with a lovely wife, played by St. Mary's student Cindy Schnell. He's also fantastically rich and he thanks God who has given him this wealth.

"Doth Job fear God for naught?" asks Satan. J.B. is devout only because it pays — or

so says Nickels. Zuss disagrees, and allows J.B. to be tested.

J.B. is quickly wiped out. In rapid succession, a series of disasters — very modern disasters occur which wipe out his family and wealth and leave him wracked by painful disease.

Three "comforters" come, as played by Gene Jones, John Rasp, and Dave Wasil. They advance ideas that science, society, and organized religion have all the answers. J.B. rejects their notions, however, still seeking for his truth in God.

And in the end, God rewards Job's faith. Everything that was destroyed is returned, and J.B. emerges from the experience a changed man. His faith in his God has been altered. It's deepened, filled with knowledge of God's power and of love.

Also appearing in the cast are John Paulus, Rich Robbins, John Seghers, Dave Steele, and Bryan Weber.

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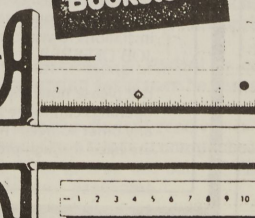
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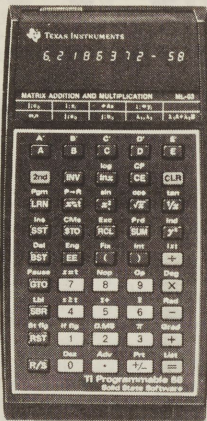
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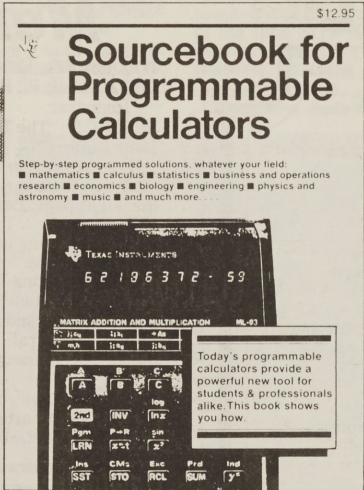


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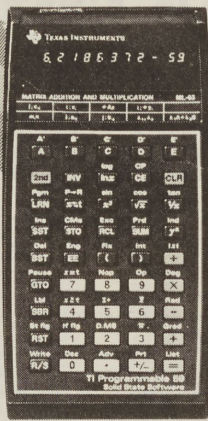
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TEXAS INSTRUMENTS
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SGA Headliners

by Daily Hill

Many wonderful and important occurrences have made their way to the SGA newsfront over the past three weeks.

The most important event was the Board of Managers Meeting at Homecoming. SGA presented the students' views by pushing for WRTR's FM licensing, summer job placement for sophomore and juniors, the purchase of snow removal equipment, and the student's strong desire for better classroom/lab facilities but disgust in the placement of the Chapel and the maze of parking lots.

Our batting average was tremendous as the Board okayed a 100-watt FM station acknowledged the need for summer placement, and passed the Master Plan in part. The part being a \$12 million fund raising program for a new classroom/lab building, addition to the union, a new dormitory, additional scholarships, and partial renovation of Moench

Hall.

They also made quite sure that the plan remained flexible with items such as the Chapel, trees removed for parking lots, swimming pool, and auditorium open for discussion.

The main point is that the Board will not back any part of the plan which the students aren't fully behind and that reassurance was given directly to Don Umpleby and myself from a majority of the individual Board members.

One further, discouraging note to your checkbooks is the board's passage of increased tuition and room/board rates for next year. Tuition will increase to \$3,210 or 7.0% over this year while room/board will rise to \$1,455, a 7.8% increase.

Other news is the announcement of upcoming freshman elections for Student Congress and Class Officers, so freshmen start bribing your neighbors for petition signatures. Also Who's Who selection was completed.

Blood drive a success

Dear Editor:

On Wednesday, October 18, a Rose-Hulman record was broken. 143 pints of blood were donated to the Central Indiana Blood Bank by members of the Rose community (142 pints were given last spring).

Too often we, as Rose students, carry the unfortunate stigma of apathy — but not on this occasion.

A special thanks goes to Donna Gustafson and Irene Mitchell for their help in planning and typing. The IFC deserves a thank-you for supplying typists and half the prize money (the other half came from the RHA).

I would also like to thank those people who helped by setting up, tearing down, serving cookies and orange drink, acting as greeters, stuffing mailboxes, and supplying typewriters.

Finally, to all those who gave blood or tried, THANK YOU for making the fall '78 blood drive a success. Over 170 people took time out of their day to give and allow an unknown someone to live.

Let's break the record again this spring!

Thanks,
Dave Wasil, Mark Nagy
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Yearbooks will be available soon

by Rick Warner

Amazingly, two yearbooks will be coming out in the next few weeks! The 1976-77 Modulus was finished early this summer except an unusual error was located in the proof sheets which the printer sent back. This caused the large delay.

Eric Hoierman, the editor for the Modulus, told the press that the "error" was the work of the previous editor for the Modulus. The previous editor is now in graduate school, but at the time, he inserted some "moderately obscene" material into the yearbook which required re-editing.

The 1977-78 Modulus is

finished, but the proof sheets haven't come back yet, so it is slightly behind the 1976-77 book.

In regard to the 1978-79 Modulus, some staff positions still need filled. Anyone who is interested in joining the Modulus staff can contact Box 892, or drop in on a Modulus meeting, which are every Tuesday at 6:30 in the Reading Room at the Hulman Union. The more help, the better the book will be, and the sooner it will arrive!

A man from Sudlow Photography will be on campus during the week of November 6-10. This will give all students, faculty and staff an opportunity

to have their picture taken for the 1979 Modulus. At that time you may also choose to have color of B/W copies made for yourself.

In order to have your picture taken, you MUST sign up during the weeks of October 23 through November 3. There will be a table set up in the main hallway of Moench Hall during normal school hours and a table set up in the Union during dinner.

There will be no charge for getting your picture taken for the yearbook only. There will be, however, if you wish to have several pictures made and then choose the best one. This option will cost \$2.00.

The THORN

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"If the facts do not conform to the theory, they must be disposed of." — Murphy.

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Memo to editor

TO: Jack File, Editor
FROM: Louis W. Harmening,
Registrar
SUBJECT: "The Thorn"

Dear Editor:
It is with regret that I call attention to an error on page 9 of the eight-page October 6, 1978, edition of "The Thorn." Actually, I am incest that you misquoted me regarding my "task of creating three schedule conflicts per student."

The quote should have read "The proliferation (is that dirty?) of courses and sex-ions makes the task of creating our quota of three conflicts purr student easily attainable." As a matter of fact, this goal (See

Volume 2 of the ten-year goals of the Institute, "Beat a Different Drummer," page 30) was attained for all students this fall; this is an important achievement because previously only third quarter seniors had all three conflicts, and then in only two required courses and one technical elective.

I demand an immediate retraction of your incorrect story — and I want it soon!

EDITOR'S REPLY:
We truly regret hearing of this error — as we don't like to get caught. We will make every effort to avoid such things in the future; getting caught twice would be truly humiliating!

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You can say goodbye to the aggravation of sending out resume after resume, following up with letters and phone calls — all the time not even knowing if a job exists with the company you have contacted.

Instead, in an easy-to-handle 24 hour period, you will learn about — and be able to interview for — all the exciting jobs in your field. You'll even get immediate results from your interviews (including invitations to visit companies and yes, EVEN JOB OFFERS!).

But please note: the majority of these openings cannot be found advertised in any other source. These unlisted positions are filled through professional contacts like

ours only! And this is your opportunity to take advantage of our unique relationship with these companies to learn about — and be offered — these positions.

IMPORTANT:

This College Conference is completely FREE, with NO OBLIGATION to you. The companies attending this conference pay the entire cost of the program just for the opportunity to meet and hire qualified students like yourself. You need pay only your personal expenses to attend the conference.

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